

Claims

What is claimed is:

1. A circular saw device for cutting a plurality of logs disposed in a cradle means, wherein said saw device comprises: a circular saw blade assembly comprising a circular saw blade, drive means to rotate said saw blade, an extension arm slidably contained within an arm sleeve, extending means to extend said extension arm wherein said extending means is non-pivotally secured to said extension arm and said arm sleeve, wherein said saw blade is mounted in generally parallel alignment with the direction said extension arm is extended, wherein said extending means, during operation of said device, is for extending said extension arm and said saw blade across the cradle means in a direction generally perpendicular to the longitudinal axes of said logs to cut said logs into segments.

2. The device of claim 1, where said circular saw blade assembly is mounted onto the cradle means which has a width greater than the diameter of said circular saw blade.

3. The device of claim 1, further comprising abutment means to contact and thereby align said plurality of logs.

4. The device of claim 3, where said abutment means is adjustable in distance relative to said saw blade assembly.

5. The device of claim 1, where the cradle means is U-shaped in cross-section.

6. The device of claim 1, further comprising a tower connected to said cradle means and surrounding said saw blade assembly.

7. The device of claim 1, where said extending means comprises at least one hydraulic piston.

8. The device of claim 1, further comprising wheels attached to the cradle means.

9. The device of claim 1 wherein the device comprises a hydraulic system for operating the drive means and extension means, said hydraulic system including a charge accumulator for delaying the time of engagement of the saw blade motor and the extension arm.

10. The device of claim 9 wherein the device further comprises a time-delay valve for varying threshold hydraulic pressure in the charge accumulator.